

Material Test Report

Heat Code: YGW /

An Ameri-Forge Group Company 13770 Industrial Rd., Houston, TX 77015

ISO 9001:2000 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

 VACOISA. S.A. DE CV.
 PO: VAC0306507
 Sales Order: 59163
 Line: 34

 AV. CANAL DE TEZONTLE NO. 36
 Item Code: 0601800102-00214
 Qty Shipped: 71

 COL. LEYES DE REFORMA
 Item Desc: FLG 08.00 0600 WN RF XH A105
 NRM COFFR

 RFC.VAC-970415-M22
 Supplier: CMC
 Supplier Heat: 256241

Spec: ASTM A 105/A 105M-03/ASME SA 105/SA 105M-04 Normalized

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Elen	ent	(%wt)	Ladle	Product	EPCR	A CAS#
С	Carbon	0.20				Ni	Nickel		0.10		✓	7440-02-0
Mn	Manganese	0.89		✓	7439-96-5	Cr	Chromiu	m	0.12		✓	7440-47-3
P	Phosphorous	0.011				Mo	Molybde	กนส	0.027			
S	Sulphur	0.020				v	Vanadiu	m	0.002			
Si	Silicon	0.19				Cb	Columbi	um	0.001			
Cu	Copper	0.23		✓	7440-50-8	C.E.			0.40			

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Mechanic	al	Heat Treat					
Test Lab	AFG	Norm. Temp. (F)	1675				
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)	4.0				
ibw.	156-156	Norm. Cooling Type	AIR				
Elg (%)	33.0	Norm. Location	AFG				
A (%)	63.0						
Tensile Specimen Size (in)	0.500	Other					
Tensile (ksi)	76.6	Country of Origin	USA (US)				
(ield (ksi)	46.2	EF	Y				
Sauge Length	2.00						
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Product compliant with NACE MRO175, latest Ed.

I.A.W VACOISA S.A. DE C.V.

No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Blongation taken from a round specimen. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Yield strength was determined using the 0.2% offset method.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

120829

Certification Date:

7/3/2007

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b

2:800

Kevin Papich - Tech. Svcs. Manager

REMISION - 6567 O.C. 5242 PART. 01